Plug-In Three-Phase Monitor Relay Series

Better. By Design.
Exclusive!

Plug-In Three-Phase Monitor Relays

A VARIETY OF APPLICATIONS

The next generation of Three-Phase Monitor Relays from Macromatic delivers significant enhancements and exclusive features designed to protect motors against voltage faults.

- HVAC
- Mining
- Pumping
- Elevator
- Crane
- Lift
- Generator
- Irrigation
- Petro-Chem
- Wastewater
- Much more

**PMP Series**

Protects against phase reversal, phase loss, undervoltage, overvoltage & phase unbalance conditions along with rapid cycling

- PMPU is the only unit with universal voltage range of 190-500V - **greater range covers more global applications** (separate catalog numbers cover 120V & 575V three-phase systems)
- True RMS voltage measurement **ensures accurate sensing across more applications**, which includes generators, regardless of load type or wave shape, resulting in improved protection
- PMP Series is the only three-phase monitor relay in its class to **retain fault indication and continue monitoring all voltages even with a lost phase**
- Expanded contact ratings - no other unit can match the ratings of the PMP Series and no other product has a DC contact rating - **control more applications with only one unit**
- Utilizes industry-standard **8 pin octal socket**

**Full Fault Identification on Top of Unit**
LED status indication for easy viewing and simplified troubleshooting

**User-Selectable & Adjustable Settings**
Variety of settings for the ultimate in three-phase protection

**Line-Line Voltage Setting**
Dial-in-dial with two scales: 190-250V low voltage scale & 380-500V high voltage scale—fewer scales make setup easier

**Adjustable Undervoltage Trip Setting**
Only unit in its class with adjustable Undervoltage Trip setting for more accurate protection against low voltage conditions

PMPU-FA8 is available with the same 190-500V universal voltage range as PMPU, but all other settings fixed for easier setup.

Manual Reset Option Works With External Switch
Allows unit to be safely and easily reset from outside the enclosure instead of opening the door to find a top-mounted button on the unit
PAP SERIES

Protects against phase loss, phase reversal & undervoltage conditions

- True RMS voltage measurement ensures accurate sensing across more applications, which includes generators, regardless of load type or wave shape, resulting in improved protection

- Best-in-class phase loss protection

- PAP Series is the only three-phase monitor relay in its class to retain fault indication and continue monitoring all voltages even with a lost phase

- Expanded contact ratings—no other unit can match the ratings of the PAP Series and no other product has a DC contact rating—control more applications with only one unit

- Utilizes industry-standard 8 pin octal socket

Full Fault Identification on Top of Unit
LED status indication for easy viewing and simplified troubleshooting

Undervoltage Trip
Adjustable from 75-95% of nominal voltage

PLP & PCP SERIES

PLP Series - Protects against phase reversal & loss
PCP Series - Protects against phase reversal only

- Only unit with universal voltage range of 190-500V - greater range covers more global applications

- PLP Series is the only three-phase monitor relay in its class to retain fault indication and continue monitoring all voltages even with a lost phase

- Expanded contact ratings - no other unit can match the ratings and no other product has a DC contact rating - control more applications with only one unit

- Utilizes industry-standard 8 pin octal socket

Full Fault Identification on Top of Unit
LED status indication for easy viewing and simplified troubleshooting
Macromatic is a highly responsive, independently owned provider of industrial control and monitoring products. Located in America’s Heartland, Macromatic’s highly trained team uses state-of-the-art equipment and proven quality control methods to produce products with superior performance.

With almost 40 years of experience, Macromatic makes it simple and cost-effective to find a solution for your application.

### About Macromatic Industrial Controls

- **Five Year Warranty**
- **Short lead-times**
- **Superior customer service**
- **Advanced technical support**
- **Products meet UL and CE**
- **RoHS manufacturing**

### One Family, Many Levels Of Protection

<table>
<thead>
<tr>
<th>Series</th>
<th>Phase Reversal (Phase Sequence)</th>
<th>Phase Loss (Single Phase)</th>
<th>Undervoltage</th>
<th>Overvoltage</th>
<th>Phase Unbalance</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCP Series</td>
<td>Yes</td>
<td>—</td>
<td>—</td>
<td>—</td>
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</tr>
<tr>
<td>PLP Series</td>
<td>Yes</td>
<td>Yes</td>
<td>—</td>
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<tr>
<td>PAP Series</td>
<td>Yes</td>
<td>Yes</td>
<td>Adjustable 75-95% of Line-Line Voltage</td>
<td>—</td>
<td>—</td>
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<tr>
<td>PMP Series</td>
<td>Yes</td>
<td>Yes</td>
<td>Adjustable 80-95% of Line-Line Voltage</td>
<td>Fixed at 110% of Line-Line Voltage</td>
<td>Adjustable 2-10%</td>
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<tr>
<td>PMP-FA Series</td>
<td>Yes</td>
<td>Yes</td>
<td>Fixed at 90% of Line-Line Voltage</td>
<td>Fixed at 110% of Line-Line Voltage</td>
<td>Fixed at 6%</td>
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</tbody>
</table>

All products work on 50/60 Hz

www.macromatic.com/ProtectMyMotor

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All Macromatic plug-in and encapsulated products are either UL Component Recognized (UR) and CSA or UL Component Recognized combined with Canadian approval (cURus). All plug-in products are UL listed when used with the appropriate socket. All surface-mount products are UL Listed combined with Canadian approvals (cULus). Many products meet CE requirements. All Macromatic products are RoHS-compliant, ensuring they meet the latest requirements for protecting the environment.